History of Photography Shown in Museum's Exhibit

century of progress photography has streamed through an aperture into which it was reflected by mirrors, the image being projected upon a sheet of velopment and can make a showing of sensitized paper. velopment and can make a showing of large achievement in the hundred years of its life.

sensitized paper. Smillie, "was the beginning of photographic portraiture. Thomas Wedgwood said he obtained

one comprehensive, permanent historical exhibit of the development of photography since its beginning. This sec- the use of developers in those days. tion of photography occupies the northwest gallery in the old National Mu-

The collection and its arrangement for thirty-five years has been gathering together everything of importance



AL MUSEUM.

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"Now here are the tallotype negative continued the custodian, strolling and an approached the process of a local photographer." continued the custodian, strolling diagram actually rotting diagrams are proposed to the process of a local photographer. The inventor of the latter of the skilling as a furnishing with the view of completing an approach the strong or the strong or the strong or the national scope of the institution. The showcase of a local photographer. The inventor of the latter of sale starts and a furnishing as it was commonly as as a furnishing machine activities, continued the custodian, strolling as furnishing as it was commonly and came across this show that the strong or the strong

result, and photography is one of the most interesting immediate results of the age. In this

The National Museum has almost very much better results on white completed and has now on view the leather than on paper, and did not know why. It was, of course, the tannin acting as the developer. It is queer that this did not lead them to "The most valuable photograph in the whole collection, and in money value equal to the whole, is this quaint seum building, and it is so admirably eight-by-ten print in the second case.

This is a specimen of the first permanent photograph made. It is an impersion with the second case. raphy may be traced with ease. There is no superabundance of material, therefore no crowding, and the cases contain just enough to make a complete and artistic display of each period or phase of the science without wearving the eye with multiplicity of the light makes asphalt insoluble so wearying the eye with multiplicity of the light makes asphalt insoluble, so that the shadows on the plate were thus etched out. He then cleaned the remaining asphalt off the plate and printed it on paper. The photograph is a copy of a painting of Cardinal d'Amcustodian of the section of photography in the National Museum, who taken and this is one of the four, being the gift of the director of the museum at Chalons-sur-Saone to this

'Now here is the familiar face of J L. M. Daguerre, who introduced the type. These portraits of the distinguished Frenchman were made in his own studio in Paris by Meade, an American. He made five daguerreotypes of the inventor of the process. years ago, and we have here the re-maining two. We came into posses-sion of this superior of the two plates through the generosity of Mr. Cramer of St. Louis. It was brought here for sale, the price being \$500. We had not the funds to expend upon it, and Mr. Cramer purchased it and handed it over to me as a gift to this collection. over to me as a gift to this collection.
"You do not know, perhaps, that Daguerre claimed to have discovered his process by an accident. He was exprocess by an accident. He was exposing some plates one afternoon and had to discontinue his work upon them. He took them out of the camera and set them in a closet. Next day when he opened the closet door he found pictures on the plates. Looking round to see what might cause this result, he found an open vessel of mercury, and was the vapor of the mercury which developed the latent image. The da-guerreotype plates are of copper plated with silver and treated with the vapors of iodine and bromine. They are then developed with the vapors of mercury. "Of course one plate is required for each copy of a picture, so that the process is expensive, but a fine daguerre-otype is a beautiful piece of work. In this third case we have the finest w. SMILLIE, CUSTODIAN OF States. I picked them up many years PHOTOGRAPHIC SECTION, NATIONago by one of those fortunate chances that come to us once in a while. I was walking through the streets of Wash-

Comprehensive and Permanent Display at National Museum Shows Development of the Art—An Exhibit Worthy of the National Scope of the Institution—Chronologically Arranged, the Visitor Can Easily Follow Photography From Its Earliest Days-The Camera Obscura, Which Was First Used in 1802—The Most Valuable Photograph in the Whole Collection—The Invention of J. L. M. Daguerre—Dainty Portraits on Vitrified Enamel—A Section Devoted to Moving Pictures.



"LA HEINE," BY THE AMERICAN PHOTOGRAPHER, MOORE.



ORIGINAL DAGUERREOTYPE OF DAGUERRE.

sticks used in imparting the wonderful the author of the first book illustrated polish to those old portraits of our by photographs. There it is, 'The Pengrandparents.

The Pengrandparents.

The Pengrandparents.

The style was known as the ambrotype.

This style was known as the ambrotype.

This style was known as the ambrotype.

This style was known as the ambrotype.

The style was known as the ambrotype. *

"They attempted some ambitious Here it is beside its humbler neighbor, this end the photogram things in those old days. See, in this the tintype. The inventor of the latter miniature painting as "Now here are the talbotype negative particle pa

ble, to the great amusement of thousands of sightseers. This primitive
camera is yet used for tracing, and
here is a model employed for the purpose and patented as late as 1875.

"The camera obscura was first used
in photography proper by Thomas
Wedgwood, who, in 1802, produced silhouettes in white on a black ground by
who is the manafacture of the camera, exterior of his beautiful English home,
in 1890, when it held its esseloin in 1890, when it held its esseloin in 1890, when it held its esseloin of this building. This entire collection of the broke the magnificent copy of Sargent's portrait of St.
Gauderreotype camera, the first of its
day errotype camera, the first of its
day errotype camera, the first of its
day errotype camera, the first of its
friend in London, H. Snowden Ward,
the meantime he gave him instructions these fine prints of the interior and to the manafacture of the camera, exterior of his beautiful English home,
this building. This entire collection of
this building. This entire collection of
the meantime he gave him instructions these fine prints of the interior and to the manafacture of the camera, exterior of his beautiful English home,
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the meantime he gave him instructions as to the manafacture of the camera, exterior of his beautiful English home,
the meantime he gave him instructions as to the manafacture of the camera obscura. Look at the mas,
the meantime he gave him instructions and the manafacture of the purchase story of sargent's portrait of story of Sargent's portrait of story of the Photography of powers and McMichael. Look at the mas,
then he houet the manafacture of the Photography of powers and McMichael. Look at the mas as to the

miniature painting as it was commonly

phy and it makes a very artistic showing. The professional portrait pho-tographer has made great strides within the last twenty years. All nine of

and show the process and development have installed in this opposite case of this popular phase of photography. stereomotorgraph, in which there will picture machine of which we have in all of the various color processes. knowledge. It was the toy of our It will run automatically and continuyouth. Muybridge was probably the ously, so that the visitor to the mufirst man who made motion pictures to seum may see it in progress at any artistic photography. There are some good examples by Peunoy. That platinum print of 'La Heine,' by Moore of number of examples of his early work, "As to picture-making machines and Philadelphia represents high artistic and we have the whole series of the their appropriate their appropriate to seum may see it in progress at any see it in progress at any and all times. and we have the whole series of the their appurtenances, we have a repremodels of motion picture cameras and sentative exhibit, from the

very interesting photographs of the moon by Rutherford, and the solar spectrum by the same scientist, both made in 1865.

"We do not consider the exhibit any-

who can make a beautiful picture out work of its observatory at Mount Wilof a seemingly impossible subject. Who but he would select a broken-down horse car and make of it a pleasing and took from five to nine hours' exposure, artistic composition? Four of the prints here are his work. Here is one which manipulates telescope and

prints here are his work. Here is one by Gertrude Kasebier and one by Frances Benjamin Johnston. This wonderful portrait is larger than life size, you see, and is not an enlargement, but a direct print from the original negative. It is the larges photograph in the collection and is the work of W. S. Lively, president of the Southern School of Photography. I asked him for a specimen of his work and he sent me this framed Portrait of An Old Man.

"In this end case we have speciment of color photography representing the grating process, as well as the auto-"Now we come to the moving pictures chrome process. We shall very soon

projectors invented by C. Francis Jen- scura in the first case to the latest automatic device on the latest camera. There is a machine which turns out "The museum includes in its exten- 3,000 bromide prints a day and a case sive photographic exhibit a splendid of shutters of every pattern. There astronomical display. These large photographs show the total eclipse of the sun in 1900, made by the Smlthsonian eclipse expedition at Wadesboro, N. C. Note these very early and year, interesting photographs of the three amount of light required for the

posite photograph of portraits of members of the National Academy which gives a representative scientific type of face.

"Look in that corner at the funny lit-

First Peace Society Organized in United States One Hundred Years Ago

Homer to Tennyson has sung its glorles. Music, painting and sculpture
have each exerted their influence to
cast a glamour around its bloody deeds.
Volumes of Mars' scriptures have been
taught against one volume of peace,
and perhaps the press has never dealt
in military allusions and illustrations
more freely than at the present time.
Yet dreams of peace—and world
peace at that—have harbored in the

tion within the span of its life has tial music and the gaudy trappings of istence.

seen these dreams become realities in the form of international congresses the form of international congresses in the subject of the anti-Christianism.

slough of war, the national sense of war. gratification might be heightened were it more prevalently known that this Early in 1812 the friends of peace in country was the scene of the first rise of definite peace agencies. Peace societies, which now exist in every civilized country of the world, all had their inception in the work of a small band of fearless Americans who had faith enough to put their theories into circumstance. Early in 1812 the friends of peace in New York deliberated under his leadership of founding a peace society to diffuse the new principles they had adopted. But at this diffuse the peace society to diffuse the new principles they had adopted. But at this diffuse the peace society and editor of its official journal, which has enough to put their theories into circumstance and the first corresponding secretary of the country.

William Ladd, from whom sprang the suggestion for a national society, because the first corresponding secretary of the American Peace Society and editor of its official journal, which has continued to the present day under the

mankind has been the history of the great destroyer—war. A continuous line of poets from held much fullness and activity for

emn Review of War." Despite the war raging in Europe, men and women are still holding to their visions and advocating the principles of peace with greater force than cliples of peace with greater force than their have ever before summoned as his new convictions and as he states. they have ever before summoned as his new convictions, and, as he states, the only action which can determine "quickened my interviews with pious friends who had given a listening ear the policy of the future.

At the first annual meeting of the new society David Dodge presided, and In view of the fact that the United States at the present time is the only first-class power not enmeshed in the state of the subject," with the result that in new society David Dodge presided, and among the men who were drawn into active co-operation were John Green-

David Low Lodge, the "Father of the Peace Movement" in this country-Society Organized in New York City a Century Ago This Month, With Lodge the Founder and First President-First Ideas of the Society and Plans Outlined by the Members for the Prevention of

peace, at that—have harbored in the thoughts of men. The present generations for nothing takes so strong hold upon the their young and tender minds as mar-

War—How Movement Has Spread During One Hundred Years. creased to sixty and maintained a friendly correspondence with the other societies which were springing into ex-

Thirteen years of pioneer work folfor the discussion of world peace and of war, which was receiving its first impulse then through the spirited essay of Dr. Noah Worcester, "The Solsidered war "as the greatest temporal evil, generating in its prosecution every

liam Jay and many others who were representatives of nearly all the family names connected with the early his-

The formation of a congress and a country, in every state and city of the prosoft he war atmosphere he became rors of the war atmosphere he became alive to the full intensity and meaning of the term. Such expressions as alive to the first of these Mr. Dodge read any arranged, and at his prophetic, constructive idea, and any arranged solvent the mining of the country, in every state and city of the prosided over a delegation of 2,000, are alive to the first of these Mr. Dodge read any arranged solvent the mining of the country, in every state and city of the prosided over a delegation of 2,000, are alive to the cloud-over a delegation of 2,000, are alive to the cloud-over a delegation of 2,000, are alive to the constructive idea, and this prophetic, constructive idea, and the prosided over a delegation of 2,000, are alive to the cloud-over a delegation of 2,000,



of peace" for the court at The Hague.

American contributions to the cause of international fraternity have been struction to be carried out along lines The meeting will mark the latest effort among peace societies and the

ed, he sees to be no less than the hero- ica, an indigenous organization like ism of soldiers. In December, 1910, he the first peace society, has been the diset apart \$10,000,000 for the promotion rect outcome of the war in Europe

among the world powers of Europe, many Americans are holding to their The Woman's peace party of Amer- soil. of peace, whose heroism, long neglect-

of the cause of peace, and through the and marks the first great organized organization known as the Carnegie entrance of women in to the field. A Endowment for International Peace, great international peace congress is to has opened many new lines of work, be held at San Francisco October 10, More recently, in February, 1914, he 11 and 12. This congress will take established a church peace union for the place of the Vienna congress which work among religious bodies, endow- was to have been held at the time when ing it with \$2,000,000. the war began. The speakers who the war began. The speakers who hav been secured are Senator Henri *
La Fontaine of Belgium, one of the recipients of the Nobel prizes; Ali Kuli Khan of Persian, the charge d'affaires of the Persian legation at Washington, and Theodore Marburg of Calfironia. peace, donated \$1,500,000 for a "temple vision of international peace. They are president of the League to Enforce

large, those of Mr. Carnegie being preeminent. Besides his donation to the
building at The Hague, he has given
\$\\$\\$5,000,000 \text{ as a pension fund for heroes}\$

the present war and insist that it be
of peace where harden are the present war and insist that it be
the last.

MANY VARIETIES OF TREES IN WASHINGTON.

THE intention of the government pear very much as stunted and de-to create a national arboretum in the upper part of Rock Creek in the upper part of Rock Creek Park recalls the apparently little Lebanon, Cephalonian firs, European known fact that already the trees that larches and specimens of the white pine grow in Washington constitute a vast of the United States, the sugar pine of arboretum, though the fact that the western part of the United States, trees are so scattered detracts from the long-leaf pine from the southern states, Bull pine, Norway spruce, white and interest and value of the collection. Scarlet Japanese quince and the purpleIt has been said that a feature of the leaf plum tree from Persia. National Capital and one which distinguishes it above other cities is its Not far away are several specimens

also in the number of varieties of trees. Washington has often been called by those persons who have an eye and fancy for tree life a great arboretum. Northern and southern, eastboretum. Northern and southern, eastboretum, lowland, highland, ern and western, lowland, highland, ern and mountain forms of trees marsh and mountain forms of trees of Judas, which at this season is not also in the number of varieties of the soapberry family. One may been of the soapberry family. One may look at white and paper mulberry trees, great laurel, Japan lemon, Nor-street, parks and grand the Japanese redbud, or tree of Judas, which at this season is not look at white and paper mulberry trees, great laurel, Japan lemon, Nor-street, parks and grand the Japanese redbud, or tree of Judas, which at this season is not look at white and paper mulberry trees, great laurel, Japan lemon, Nor-street, parks and grand the Japanese redbud, or tree of Judas, which at this season is not look at white and paper mulberry trees, great laurel, Japan lemon, Nor-street, parks and grand trees, princess trees of the soapberry family. One may look at white and paper mulberry trees, great laurel, Japan lemon, Nor-street, parks and grand trees, princess trees of the soapberry family. One may look at white and paper mulberry trees, great laurel, Japan lemon, Nor-street, parks and grand trees, princess trees of the soapberry family. ington stands first among cities, but arbor vitae. Grouped with the tree of boretum. Northern and southern, eastern and western, lowland, highland, marsh and mountain forms of trees grow in the streets, parks and gargrow in the streets, parks and gardens.

It is no doubt true that the part of the city where the greatest number of tree families are represented is the park which surrounds the buildings of the Department of Agriculture. The place where the next greatest number of tree forms may be seen is either the National Botanic Garden, which seems to be on the eve of removal to seems to be on the eve of removal to green is strikingly dark and rich and another situation, or the Capitol its foliage grows in flattened masses, grounds. There was an effort, and rather a successful effort, to gather in the Capitol grounds specimens of most of white, red and Carolina cedars. To of the trees of the United States which write the varieties of birch, willow, could endure the climate of this lati-tude. in the grounds of the Department of There is a very large collection of Agriculture would be like reproducing confers in Washington, and it may be agreeable to the layman to know that In the grounds one also finds a rare conifers are cone-bearing trees, like the pines, cedars, firs, spruces, etc. A great is quite familiar with them when they variety of these trees are growing in the grounds of the Department of Agriculture.

Stonding like tell continues on either in the grounds one also finds a rare group of magnolias, and Washington is quite familiar with them when they are in bloom, in the early spring. Among these trees are the Lennie magnolia, the long-leaf magnolia, the bull the grounds of the Department of Agriculture.

Among these trees are the Lennie magnolia, the bull bay, sculange magnolia, umbrella magnolia, the bull bay, sculange magnolia, umbrella magnolia, the purple magnolia, umbrella magnolia, the purple magnolia, sweet the Chinese water pines. This is a rare tree in the United States, but several are to be seen in Washington outside of the Agricultural grounds. One stees in the Lennie magnolia, the bull bay, sculange magnolia, umbrella magnolia, sweet magnolia, sw

a grove of sweet-smelling lindens, some of them European, with small rough leaves, and some of the Ameri-can kind, with large smooth and shining leaves.

The palmetto, both the "saw" and "cabbage" varieties, grow in the heart

of Washington to cheer those of its citizens and visitors who come from the coast of South Carolina and from

Florida. The eye of the Californian is gladdened with the eucalyptus, redwood, silver fir and wild pepper. A man who knows something about trees may identify within ten minutes' wealth of foliage and multitude of tree forms. It is not only in the extent of its urban woodland that Wash-tent of its ur thorn, horse chestnut and many mem-bers of the soapberry family. One may

> family.
>
> In the Botaanic Garden the memorial trees are well known to the public, but there are many tree forms which are interesting outside of these historic as-sociations. There is a tall cypress which was planted by Edward Forrest, which was planted by Edward Follos, the actor; a Japanese cypress planted by Mrs. Jefferson Davis while her husband was Secretary of War, an accacia planted by Albert Pike, a Lebanon cedar planted by Lot M. Morrill, a British oak planted by Thomas F. Bayard, and a mossy over-cup oak planted by John J. Crittenden of Kentucky. In the grounds are several Crimean ced-ars, hornbeams, Carolina and Lombardy poplars, and an interesting specimen of Chinese cypress grown from a tree that was growing at the tomb of Con-fucius. Under the protection of glass are growing fruit trees, embracing the lemon, orange, lime, guava, mango, banana, bread fruit and several specie